OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 1 of 41

CARTRIDGE (FOR DVD-RAM DISC) **CLAMP** DATA **READ-OUT** CENTER AREA 24 RECORDING LEAD-OUT FACE 19 HOLE 22 AREA 28 AREA 26 /INFO. AREA LEAD-IN AREA 27 ADHESIVE TRANSPARENT LAYER 20 **SUBSTRATE RECORDABLE** RECORDABLE 14 **OPTICAL** LAYER(S) 17 DISK 10 RECORDING TRACKS LEAD-LEAD-IN OUT AREA (LAND/GROOVES) **AREA** LOGICALLOGICAL LOGICAL SECTOR SECTOR SECTOR ~ 2048 BYTES (2k BYTES)

FIG. 1

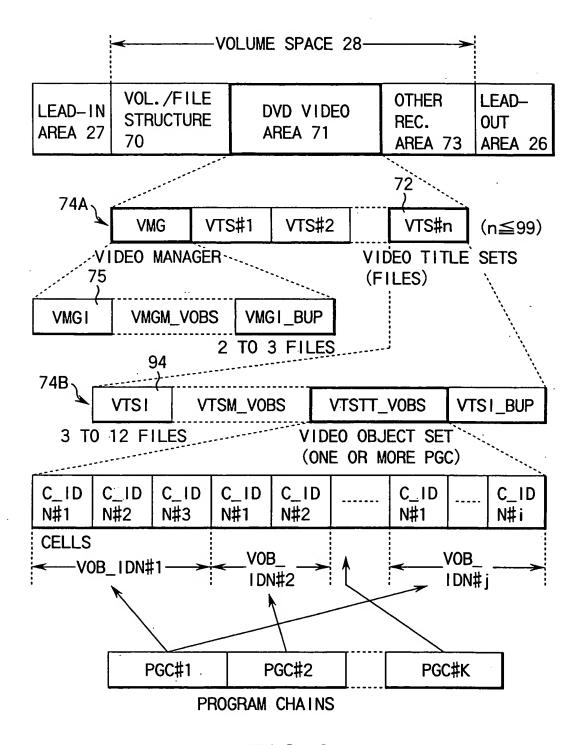


FIG. 2

OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 3 of 41

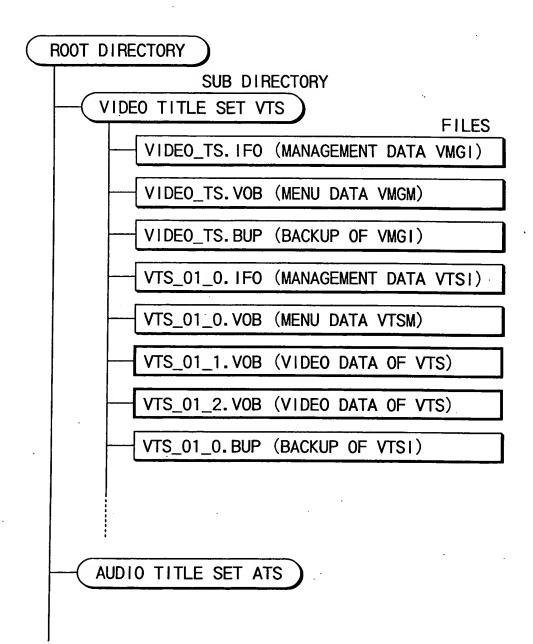


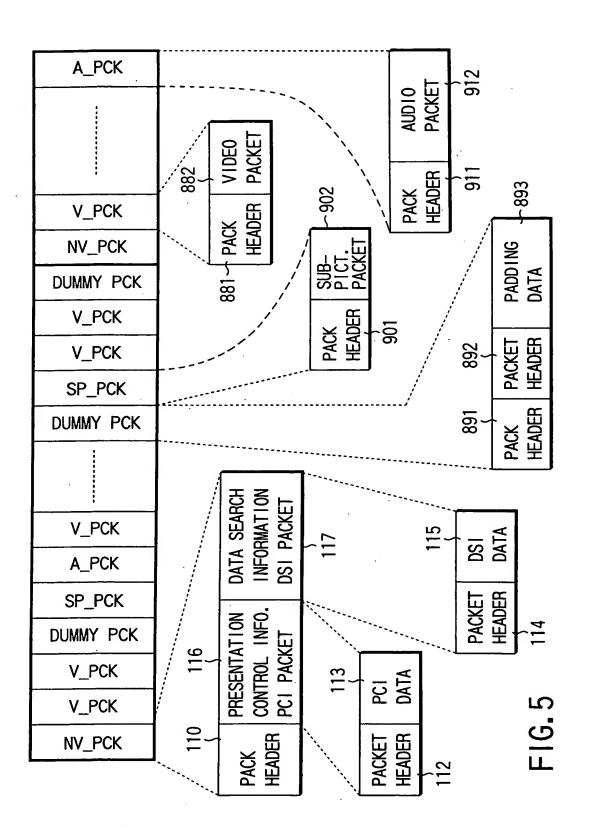
FIG. 3

|                                    |          | JECT                    |      | #i)                       |                           | JECT                      |          | A_PCK                     | ]   |       |           |  |
|------------------------------------|----------|-------------------------|------|---------------------------|---------------------------|---------------------------|----------|---------------------------|---|-------|-----------|--|
|                                    |          | VIDEO OBJECT            |      | CELL (C_IDN#i)            |                           | VIDEO OBJECT<br>UNIT VOBU |          |                           |   |       |           |  |
|                                    |          |                         |      |                           |                           |                           |          | V_PCK                     |   |       |           |  |
|                                    |          |                         |      |                           |                           |                           | 98<br>98 | NV_PCK                    | ֓֞֟֝֟֝֟֝֟֝֓֓֓֓֓֓֓֓֓֟֟֝֓֓֓֓֟֝֓֓֓֓֓֓֓֟֝֓֓֓֓֡֝֡֡֡֡֡֡֡֝֓֡֓֡֡֡֡֡֡֡֡    |       |           |  |
| OBS)                               |          |                         |      |                           |                           |                           |          | DUMMY PCK                 | ֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓                             |       |           |  |
| <u> </u>                           |          |                         |      |                           |                           |                           | V_PCK    |                           |   |       |           |  |
| (VTS                               | SIA) SBO |                         |      |                           |                           | VIDEO OBJECT<br>UNIT VOBU |          | V_PCK                     | E TWO TYPES OF VOBU; ONE WITH NV_PCK, & THE OTHER WITHOUT NV_PCK) |       |           |  |
| 088                                |          |                         |      |                           |                           |                           |          | SP_PCK                    |   |       |           |  |
| SET V                              |          |                         |      |                           |                           | VIDEO OBJ<br>UNIT VOBU    |          | DUMMY PCK                 | ֓֞֟֟֓֓֟֟֓֟֓֓֓֟֟֓֓֓֓֓֟֟֓֓֓֓֟֟֓֓֓֓֓֟֓֓֓֟֓                           |       |           |  |
| VIDEO OBJECT SET VOBS (VTSTT_VOBS) |          | 5                       |      | CELL (C_IDN#2)            |                           |                           | ••••••   |                           |   |       |           |  |
| DEO                                |          |                         |      | VIDEO OBJECT<br>VOB_IDN#2 |                           |                           |          | VIDEO OBJECT<br>UNIT VOBU |   | V_PCK |           |  |
| >                                  |          | VIDEO OBJE<br>VOB_IDN#2 |      | 빙                         |                           | VIDEO OBJ<br>UNIT VOBU    | 91       | A_PCK                     |   |       |           |  |
|                                    | ·        | N N                     |      |                           |                           | <b>&gt; S</b>             | 8-       | SP_PCK                    | F   |       |           |  |
|                                    |          |                         |      |                           | CT.                       |                           | (C_IDN#1 |                           | CT  | 8-4   | DUMMY PCK | ֓֞֞֞֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֡֓֓֓֡֓֜֡֡֡֡֓֡֓֡֡֡֡֓֡֓֡֡֡֡֡֡ |
|                                    |          |                         | (C_1 |                           | VIDEÓ OBJECT<br>UNIT VOBU |                           | V_PCK    | ייין דייווד               |   |       |           |  |
| -                                  |          |                         | 85~  | VIDEÓ OBJE<br>UNIT VOBU   | 88-                       | V_PCK                     |          |                           |   |       |           |  |
|                                    |          | \<br>\<br>\<br>\        |      | <sup>3</sup>              |                           | > S                       | 8-       | NV_PCK                    | (AIOTE  |       |           |  |

F16.4

OBLON, SPIVAK ET AL. Docket No. 249826US-2S DIV Inventor: Shinichi KIKUCHI et al. Appl. No. New Divisional Application Page 5 of 41





OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 6 of 41

#### CONTENTS OF PRESENTATION CONTROL INFORMATION PCI

| SYMBOL     | CONTENTS                    |
|------------|-----------------------------|
| PCI_GI     | PCI GENERAL INFORMATION     |
| NSML_AGL I | ANGLE INFO. FOR NONSEAMLESS |
| HLI        | HIGHLIGHT INFORMATION       |
| RECI       | RECORDING INFORMATION       |

FIG.6

# CONTENTS OF PRESENTATION CONTROL INFORMATION GENERAL INFORMATION PCI\_GI

| CONTENTS                                |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| LOGICAL BLOCK NUMBER OF NAVIGATION PACK |  |  |  |  |  |  |  |
| CATEGORY OF VOBU                        |  |  |  |  |  |  |  |
| RESERVED                                |  |  |  |  |  |  |  |
| USER OPERATION CONTROL OF VOBU          |  |  |  |  |  |  |  |
| START PTM OF VOBU                       |  |  |  |  |  |  |  |
| END PTM OF VOBU                         |  |  |  |  |  |  |  |
| END PTM OF SEQUENCE<br>END IN VOBU      |  |  |  |  |  |  |  |
| CELL ELAPSE TIME                        |  |  |  |  |  |  |  |
| RESERVED                                |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |

FIG.7

| VIDEO TITLE SET   |          |                         |
|-------------------|----------|-------------------------|
| VTS 72 (FILE 74B) |          | VIDEO TITLE SET INFO.   |
| 710 72 (1122 718) | 1        | MANAGEMENT TABLE        |
| VIDEO TITLE SET . | -94      | VTSI_MAT                |
| INFO. VTSI        | 1        | VIDEO TITLE SET PART_   |
| VIDEO OD IECT CET |          | OF_TITLE SEARCH POINTER |
| VIDEO OBJECT SET  | <u>}</u> | TABLE VTS_PTT_SRPT      |
| FOR VIDEO TITLE   | <u> </u> | VIDEO TITLE SET PROGRAM |
| SET MENU          | \        | CHAIN INFORMATION TABLE |
| VTSM_VOBS         |          | VTS_PGCIT               |
| VIDEO OBJECT SET  |          | VIDEO TITLE SET MENU    |
| FOR VIDEO TITLE   | \        | PGCI UNIT TABLE         |
| SET TITLE         | \ \      | VTSM_PGCI_UT            |
| VTSTT_V0BS        | Ì        | VIDEO TITLE SET         |
| BACKUP OF VIDEO   | Ì        | TIME MAP TABLE          |
| TITLE SET INFO.   | \<br>\   | VTS_TMAPT               |
| VTS1_BUP          |          | VIDEO TITLE SET MENU    |
|                   | •        | CELL ADDRESS TABLE      |
|                   |          | VTSM_C_ADT              |
|                   | ,        | VIDEO TITLE SET MENU    |
|                   | ţ        | VIDEO OBJECT UNIT       |
|                   | Ì        | ADDRESS MAP             |
|                   | ,        | VTSM_VOBU_ADMAP         |
|                   | <b>\</b> | VIDEO TITLE SET CELL    |
|                   | •        | ADDRESS TABLE           |
|                   | <u> </u> | VTS_C_ADT               |
|                   | <i>\</i> | VIDEO TITLE SET VIDEO   |
|                   |          | OBJECT UNIT ADDRESS     |
| •                 | Ì        | MAP VTS_VOBU_ADMAP      |

FIG.8

OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 8 of 41

#### VIDEO TITLE SET INFO. VTSI 94

| VIDEO TITLE SET INFO. VTSI   | 94 |
|--|----|
| VIDEO TITLE SET INFO. MANAGEMENT TABLE VTSI_MAT                        |    |
| VIDEO TITLE SET PART_<br>OF_TITLE SEARCH POINTER<br>TABLE VTS_PTT_SRPT |    |
| VIDEO TITLE SET PROGRAM CHAIN INFORMATION TABLE VTS_PGCIT              |    |
| VIDEO TITLE SET MENU PGCI UNIT TABLE VTSM_PGCIT_UT                     |    |
| VIDEO TITLE SET<br>TIME MAP TABLE<br>VTS_TMAPT                         |    |
| VIDEO TITLE SET MENU CELL ADDRESS TABLE VTSM_C_ADT                     |    |
| VIDEO TITLE SET MENU VIDEO OBJECT UNIT ADDRESS MAP VTSM VOBU ADMAP     |    |
| VIDEO TITLE SET CELL ADDRESS TABLE VTS_C_ADT                           |    |
| VIDEO TITLE SET VIDEO OBJECT UNIT ADDRESS MAP VTS_VOBU_ADMAP           |    |

VIDEO TITLE SET PROGRAM CHAIN INFO. TABLE INFORMATION VTS\_GCITI VIDEO TITLE SET PROGRAM CHAIN INFO. SEARCH POINTER #1 VTS\_PGCI\_SRP#1 VIDEO TITLE SET PROGRAM CHAIN INFO. SEARCH POINTER #n VTS\_PGCI\_SRP#n VIDEO TITLE SET PROGRAM CHAIN INFO. VTS\_PGCI VIDEO TITLE SET PROGRAM CHAIN INFO. VTS\_PGC1

OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 9 of 41

#### STRUCTURE OF PROGRAM CHAIN INFO. PGCI

| PROGRAM CHAIN GENERAL INFO.<br>PGC_GI |
|---------------------------------------|
| PROGRAM CHAIN COMMAND TABLE PGC_CMDT  |
| PROGRAM CHAIN PROGRAM MAP PGC_PGMAP   |
| CELL PLAYBACK INFO. TABLE C_PBIT      |
| CELL POSITION INFO. TABLE C_POSIT     |

FIG. 10

## CONTENTS OF CELL PLAYBACK INFO. TABLE C\_PBIT

| CELL PLAYBACK INFO. ‡ (C_PBI#1)  | 1  |
|----------------------------------|----|
| CELL PLAYBACK INFO. \$ (C_PBI#2) | 2  |
|                                  |    |
| CELL PLAYBACK INFO. # (C_PBI#n)  | 'n |

FIG. 11

OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 10 of 41

#### CONTENTS OF CELL PLAYBACK INFORMATION C\_PBI

| SYMBOL     | CONTENTS   |
|------------|--|
| C_CAT      | CELL CATEGORY  |
| C_PBTM     | CELL PLAYBACK TIME   |
| C_FVOBU_SA | START ADR. OF 1ST VOBU IN CELL   |
| C_FILVU_EA | END ADR. OF 1ST ILVU IN CELL   |
| C_LVOBU_SA | START ADR. OF LAST VOBU IN CELL  |
| C_LVOBU_EA | END ADR. OF LAST VOBU IN CELL  |
| CELL TYPE  | ERASION LEVEL FLAG  00h=PLAYBACK IS PERMITTED & AUTOMATIC ERASION IS PROHIBITED  01h=PLAYBACK IS PERMITTED & AUTOMATIC ERASION IS PROHIBITED |

## FIG. 12

| ſ |                       |  | TENTS C |             | ELL |             | EGO | _                             |    |                        |                  |
|---|-----------------------|--|---------|-------------|-----|-------------|-----|-------------------------------|----|------------------------|------------------|
| - | b31 b30               | b29 b28                                      | b27     |             |     | b26         |     | b:                            | 25 |                        | b24              |
|   | CELL<br>BLOCK<br>MODE | CELL SEAMLESS<br>BLOCK PLAYBACK<br>TYPE FLAG |         | CK          |     | VED<br>OCAT |     | STS<br>DISCO<br>NUITO<br>FLAG | 1  | SEAMI<br>ANGLE<br>FLAG | LESS<br>E CHANGE |
|   | b23                   | b2   | 22      | b           | 21  |             | b20 | 0                             |    | b16                    |                  |
| { | RESERVED CELL BACK    |  |         | ACCI<br>RES |     | TION        | FL  | .AG                           | С  | ELL T                  | YPE              |
|   | b15 b8                |  |         |             |     |             | b8  |                               |    |                        |                  |
|   | CELL STILL TIME       |  |         |             |     |             |     |                               |    |                        |                  |
|   | b7 b0                 |  |         |             |     |             | b0  |                               |    |                        |                  |
|   | CELL COMMAND NUMBER   |  |         |             |     |             |     |                               |    |                        |                  |

OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 11 of 41

### CONTENTS OF PROGRAM CHAIN GENERAL INFO. PGC\_GI

| SYMBOL        | CONTENTS                            |
|---------------|-------------------------------------|
| PGC_CNT       | PGC CONTENTS                        |
| PGC_PB_TM     | PGC PLAYBACK TIME                   |
| PGC_UOP_CTL   | PGC USER OPERATION CONTROL          |
| PGC_AST_CTLT  | PGC AUDIO STREAM CONTROL TABLE      |
| PGC_SPST_CTLT | PGC SUB-PICT. STREAM CONTROL TABLE  |
| PGC_NV_CTL    | PGC NAVIGATION CONTROL              |
| PGC_SP_PLT    | PGC SUB-PICTURE PALETTE             |
| PGC_CMDT_SA   | START ADR. OF PGC COMMAND TABLE     |
| PGC_PGMAP_SA  | START ADR. OF PROGRAM MAP           |
| C_PBIT_SA     | START ADR. OF CELL PLAYBACK TABLE   |
| C_POSIT_SA    | START ADR. OF CELL POS. INFO. TABLE |

FIG. 14

OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 12 of 41

#### CONTENTS OF PGC GENERAL INFO. PGC\_GI FOR TRASH PGC

| SYMBOL        | CONTENTS  |  |  |  |  |
|---------------|---|--|--|--|--|
| PGC_CNT       | PGC CONTENTS  |  |  |  |  |
| PGC_PB_TM     | PGC PLAYBACK TIME                                       |  |  |  |  |
| PGC_UOP_CTL   | PGC USER OPERATION CONTROL                              |  |  |  |  |
| PGC_AST_CTLT  | PGC AUDIO STREAM CONTROL TABLE                          |  |  |  |  |
| PGC_SPST_CTLT | PGC SUB-PICT. STREAM CONTROL TABLE                      |  |  |  |  |
| PGC_NV_CTL    | PGC NAVIGATION CONTROL                                  |  |  |  |  |
| PGC_SP_PLT    | PGC SUB-PICTURE PALETTE                                 |  |  |  |  |
| PGC_CMDT_SA   | START ADR. OF PGC COMMAND TABLE                         |  |  |  |  |
| PGC_PGMAP_SA  | START ADR. OF PROGRAM MAP                               |  |  |  |  |
| C_PBIT_SA     | START ADR. OF CELL PLAYBACK TABLE                       |  |  |  |  |
| C_POSIT_SA    | START ADR. OF CELL POS. INFO. TABLE                     |  |  |  |  |
| TRASH_PGC_FLG | TRASH PGC FLAG<br>01h=TRASH PGC<br>00h=CONVENTIONAL PGC |  |  |  |  |

FIG. 15

OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 13 of 41

#### CONTENTS OF C\_PBI FOR TRASH PGC

| SYMBOL     | CONTENTS                                  |
|------------|---|
| C_CAT      | PGC CATEGORY                              |
| C_PBTM     | PGC PLAYBACK TIME                         |
| C_FV0BU_SA | START ADR. OF 1ST VOBU IN CELL            |
| C_FILVU_EA | END ADR. OF 1ST ILVU IN CELL              |
| C_LVOBU_SA | START ADR. OF LAST VOBU IN CELL           |
| C_LVOBU_EA | END ADR. OF LAST VOBU IN CELL             |
| PGC_N      | ORIGINAL PGC NUMBER OF CURRENT CELL       |
| C_ID_N     | CORRESPONDING CELL NUMBER OF ORIGINAL PGC |

FIG. 16

OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 14 of 41

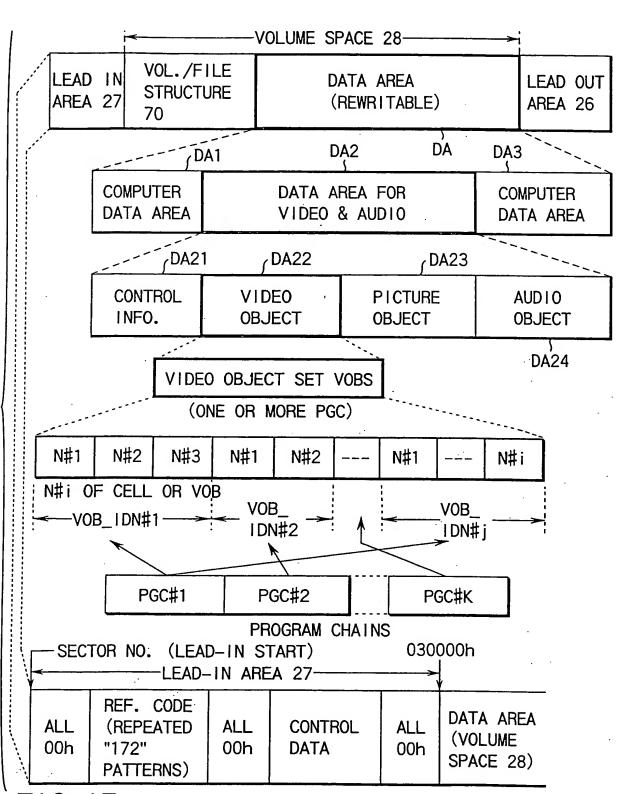


FIG. 17

OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 15 of 41

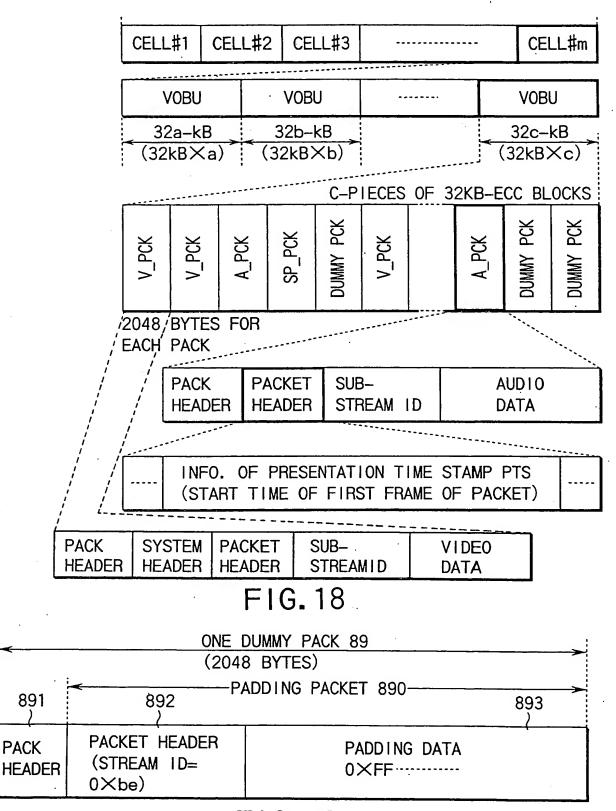


FIG. 19

OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 16 of 41

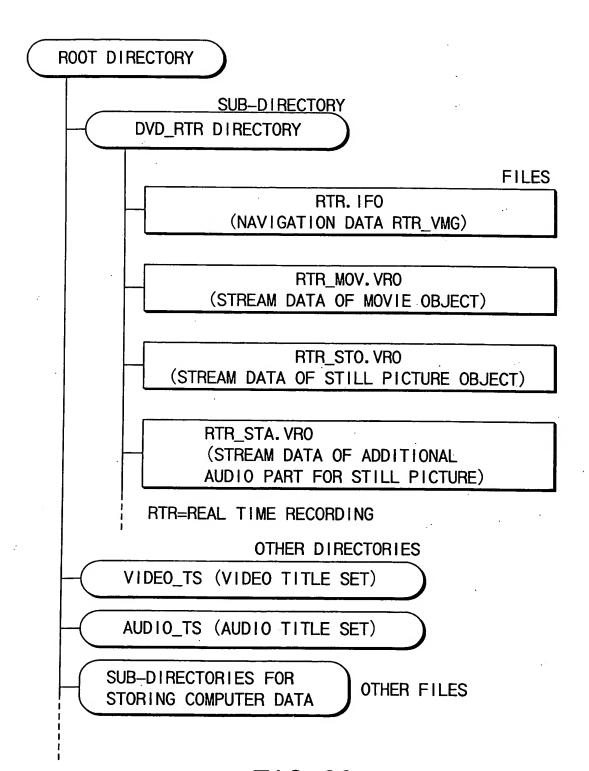


FIG. 20

Page 17 of 41

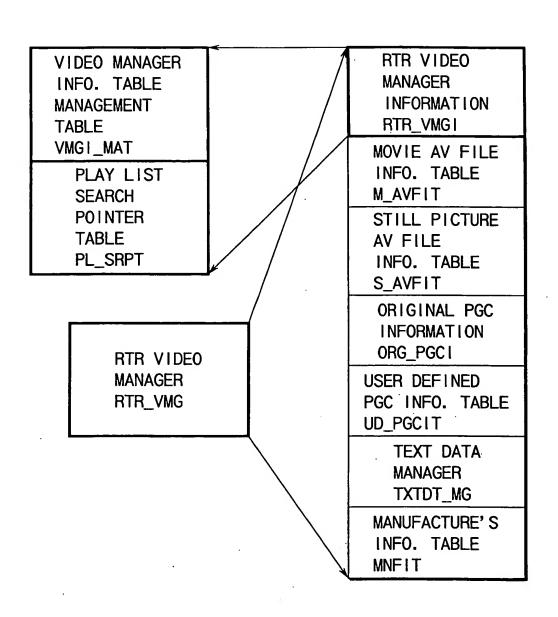


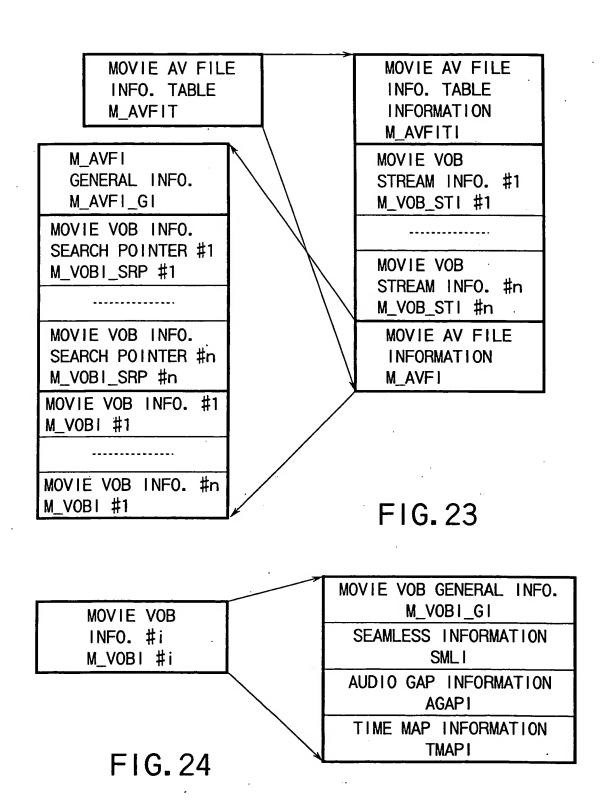
FIG. 21

OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 18 of 41

#### CONTENTS OF VMGI\_MAT

| FIELD NAME  | CONTENTS   |  |
|-------------|--|--|
| VMG_ID      | VMG IDENTIFIER                                     |  |
| RTR_VNG_EA  | END ADDRESS OF RTR_VMG                             |  |
| RESERVED    | RESERVED   |  |
| VMGI_EA     | END ADDRESS OF VMGI                                |  |
| VERN        | VERSION NUMBER OF DVD SPEC.<br>FOR VIDEO RECORDING |  |
| RESERVED    | RESERVED   |  |
| TM_ZONE     | TIME ZONE  |  |
| STILL_TM    | STILL TIME FOR STILL PICTURES                      |  |
| CHRS        | CHARACTER SET CODE<br>FOR PRIMARY TEXT             |  |
| RSM_MRK1    | RESUME MARKER INFORMATION                          |  |
| REP_PICTI   | DISC REPRESENTATIVE PICTURE INFORMATION            |  |
| RESERVED    | RESERVED   |  |
| M_AVFIT_SA  | START ADDRESS OF M_AVFIT                           |  |
| S_AVFIT_SA  | START ADDRESS OF S_AVFIT                           |  |
| RESERVED    | RESERVED   |  |
| ORG_PGC1_SA | START ADDRESS OF ORG_PGC1                          |  |
| UD_PGCIT_SA | START ADDRESS OF UD_PGCIT                          |  |
| TXTDT_MG_SA | START ADDRESS OF TXTDT_MG                          |  |
| MNFIT_SA    | START ADDRESS OF MNFIT                             |  |
| RESERVED    | RESERVED RESERVED                                  |  |

OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 19 of 41



OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 20 of 41

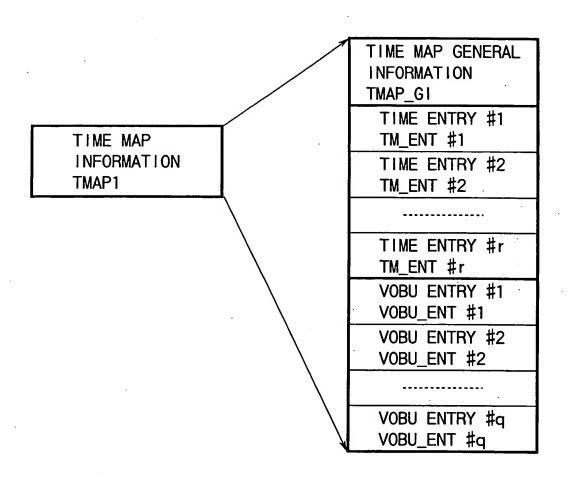


FIG. 25

OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 21 of 41

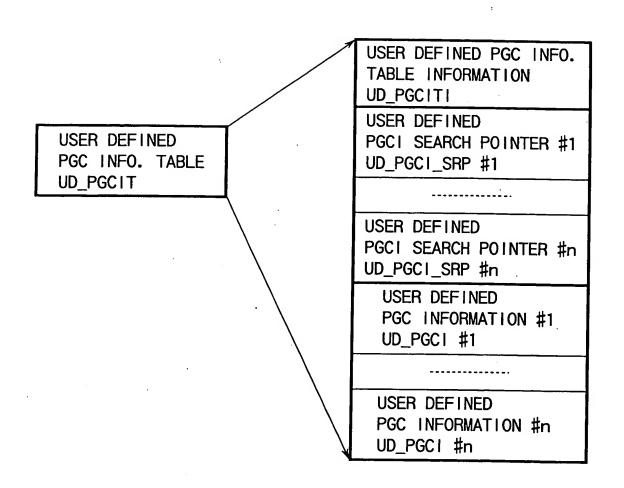


FIG. 26

Page 22 of 41

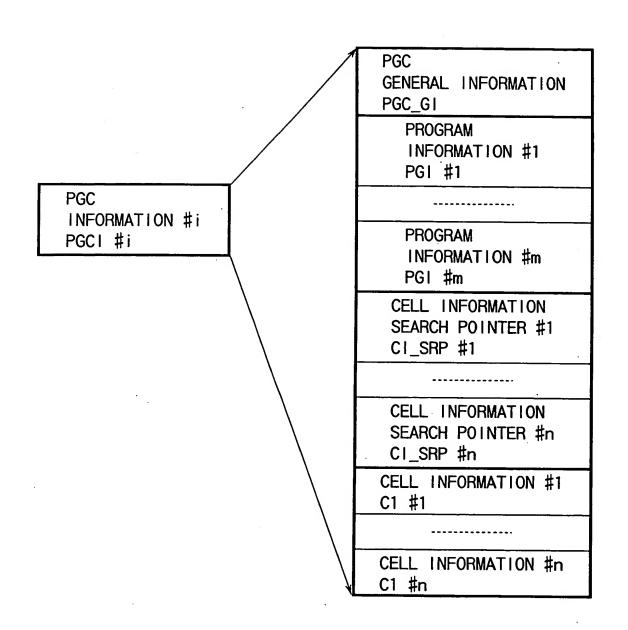


FIG. 27

OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 23 of 41

### CONTENTS OF PGC\_GI

| FIELD NAME    | CONTENTS  |  |
|---------------|---|--|
| RESERVED      | RESERVED  |  |
| PG_Ns         | NUMBER OF PROGRAMS                                  |  |
| CI_SRP_Ns     | NUMBER OF CI SEARCH POINTERS                        |  |
| TRASH_PGC_FLG | TRASH PGC FLAG  01h=TRASH PGC  00h=CONVENTIONAL PGC |  |

FIG. 28

#### CONTENTS OF PGI

| FIELD NAME  | CONTENTS                      |  |
|-------------|-------------------------------|--|
| RESERVED    | RESERVED                      |  |
| PG_TY       | PROGRAM TYPE                  |  |
| C_Ns        | NUMBER OF CELLS IN PROGRAM    |  |
| PRM_TXT1    | PRIMARY TEXT INFORMATION      |  |
| IT_TXT_SRPN | ITEM TEXT SRP NUMBER          |  |
| THM_PTRI    | THUMBNAIL POINTER INFORMATION |  |

FIG. 29

OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 24 of 41

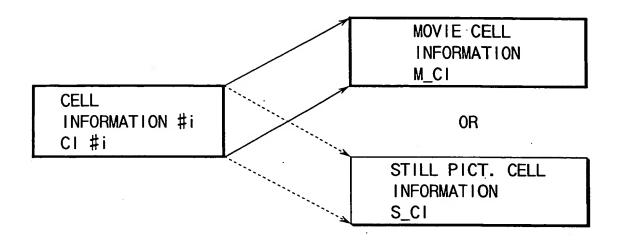


FIG. 30

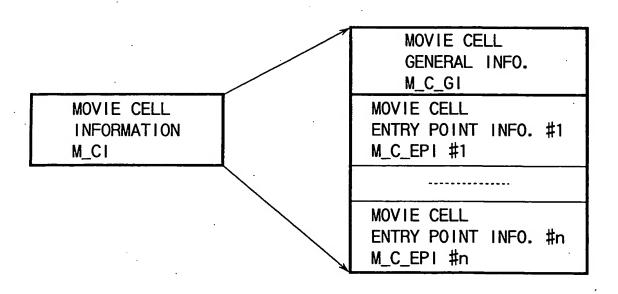


FIG. 31

OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 25 of 41

### CONTENTS OF M\_C\_GI

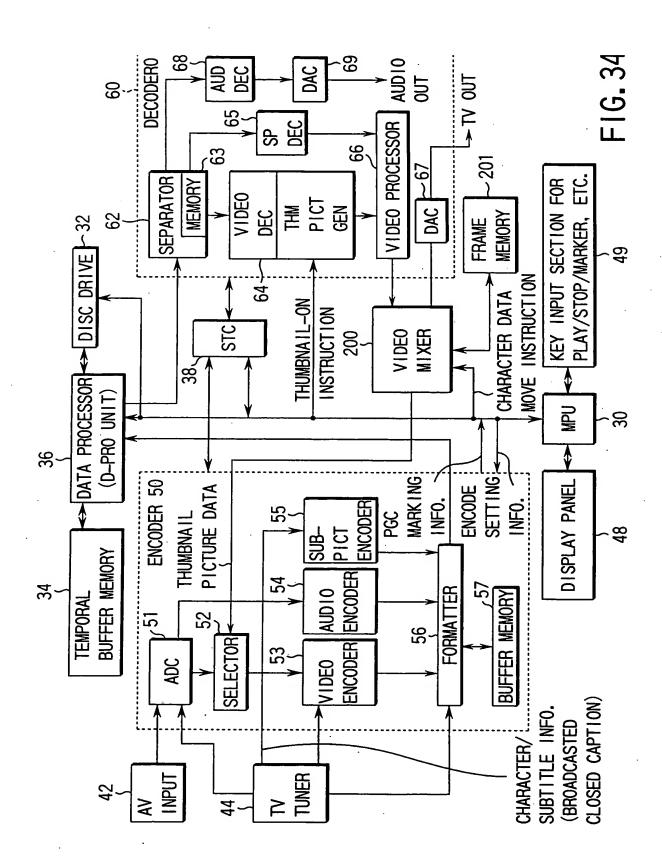
| FIELD NAME  | CONTENTS                         |  |
|-------------|----------------------------------|--|
| RESERVED    | ) RESERVED                       |  |
| C_TY        | CELL TYPE                        |  |
| M_VOBI_SRPN | MOVIE VOBI SRP NUMBER            |  |
| C_EPI_Ns    | NUMBER OF CELL ENTRY POINT INFO. |  |
| C_V_S_PTM   | PRESENTATION START TIME OF CELL  |  |
| C_V_E_PTM   | PRESENTATION END TIME OF CELL    |  |

FIG. 32

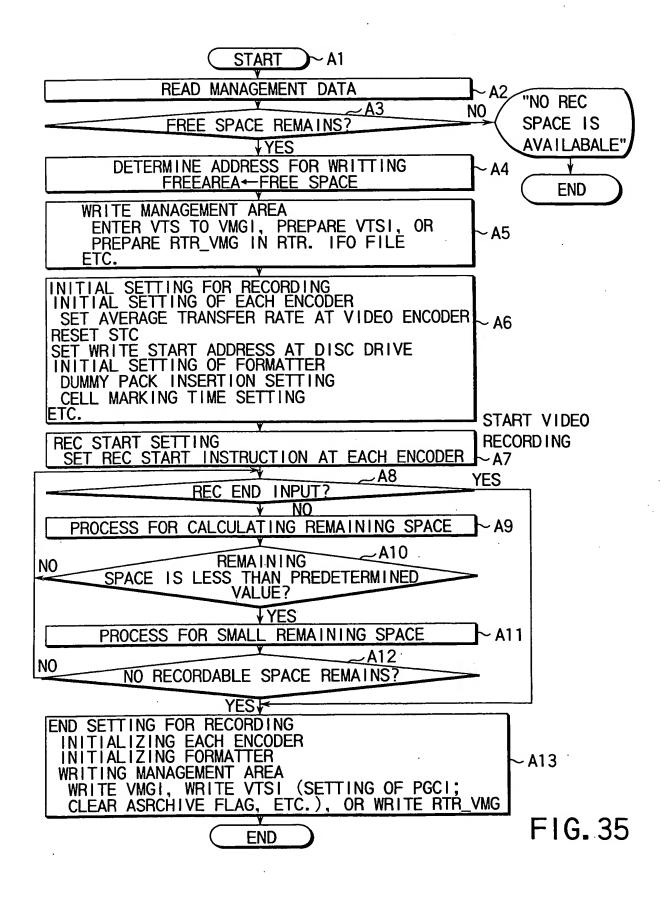
#### CONTENTS OF M\_C\_EPI

|  | FIELD NAME | CONT         | ENTS                             |  |  |
|--|------------|--------------|----------------------------------|--|--|
|  | EP_TY      | ENTRY PO     | INT TYPE                         |  |  |
|  | EP_PTM     | PTM OF EN    | ITRY POINT                       |  |  |
|  | PRM_TXT1   | PRIMARY TEXT | INFORMATION                      |  |  |
|  |            |              |                                  |  |  |
| ERASION LEVEL FLAG   |            |              | INFORMATION TYPE                 |  |  |
| TRASH PGC INFORMATION (ORIGINAL PGC NUMBER PGC_N & CORRESPONDING CELL NUMBER C_ID_N OF ORIGINAL PGC) |            | V            | INFORMATION DATE                 |  |  |
|  |            | 1            | CHARACTER INFO. (CONTENTS INFO.) |  |  |
|  |            |              |                                  |  |  |

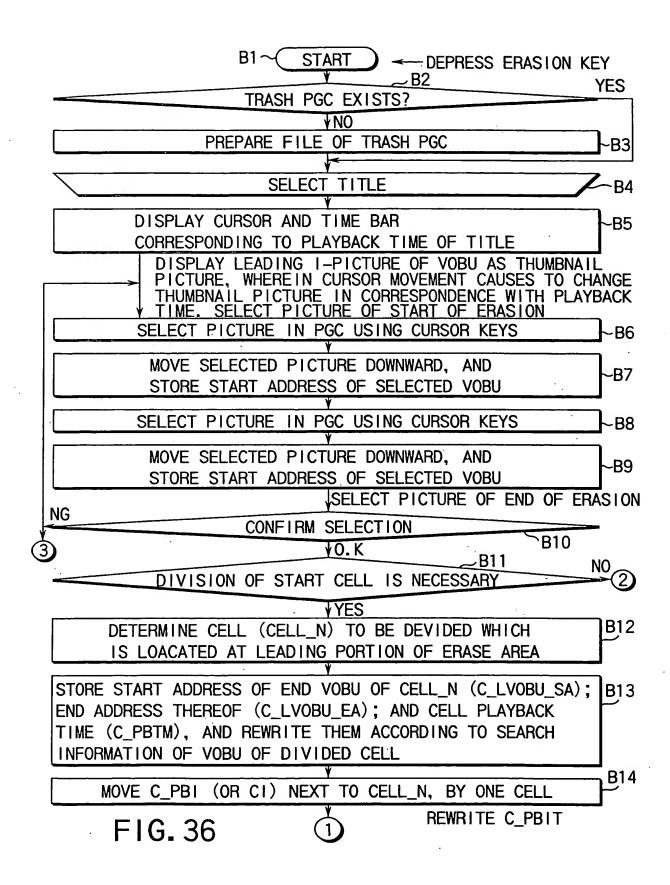
FIG. 33



OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 27 of 41

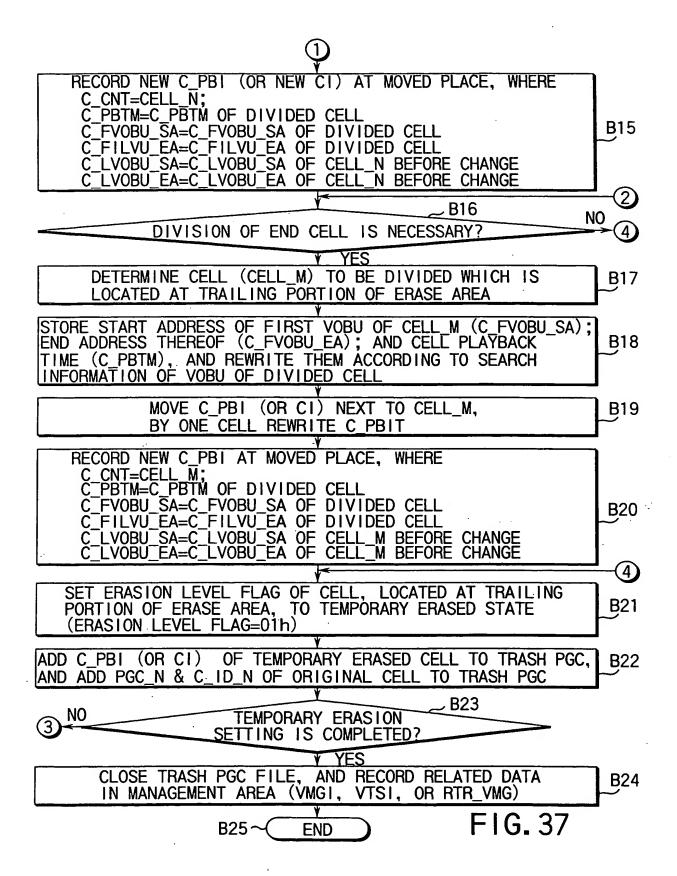


OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 28 of 41

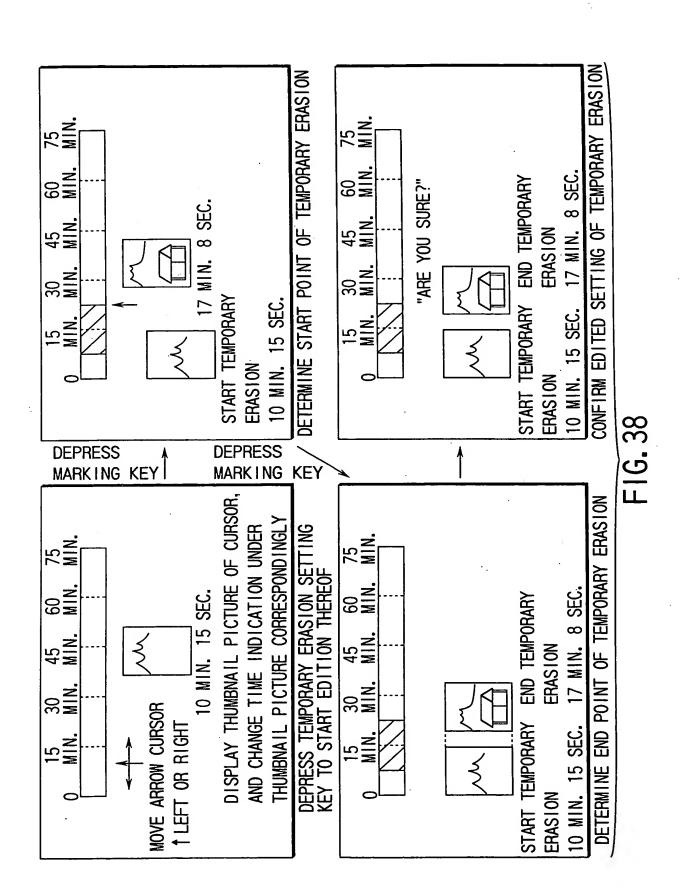


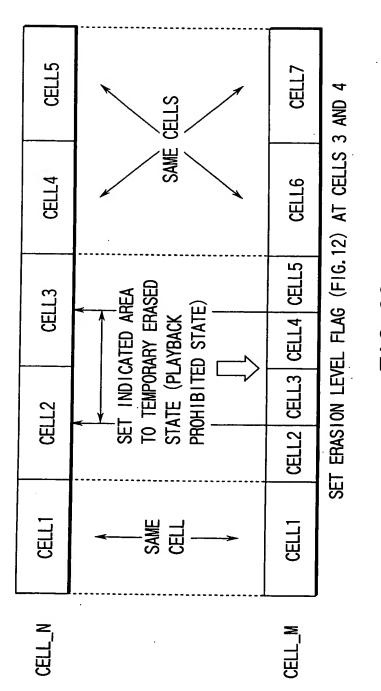
# OBLON, SPIVAK ET AL. Docket No. 249826US-2S DIV Inventor: Shinichi KIKUCHI et al. Appl. No. New Divisional Application

Page 29 of 41

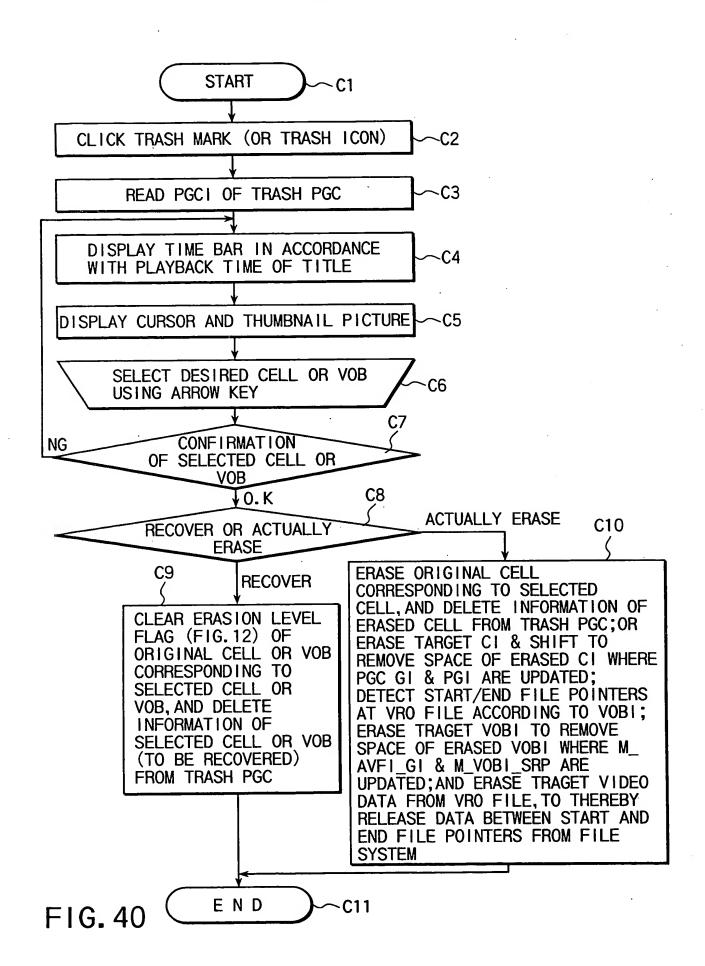


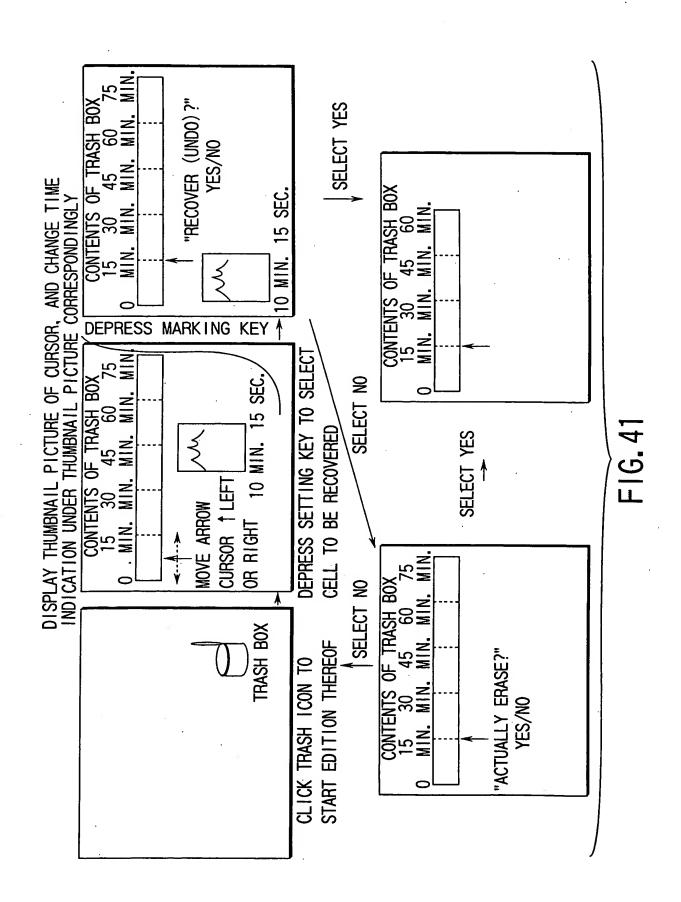
OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 30 of 41



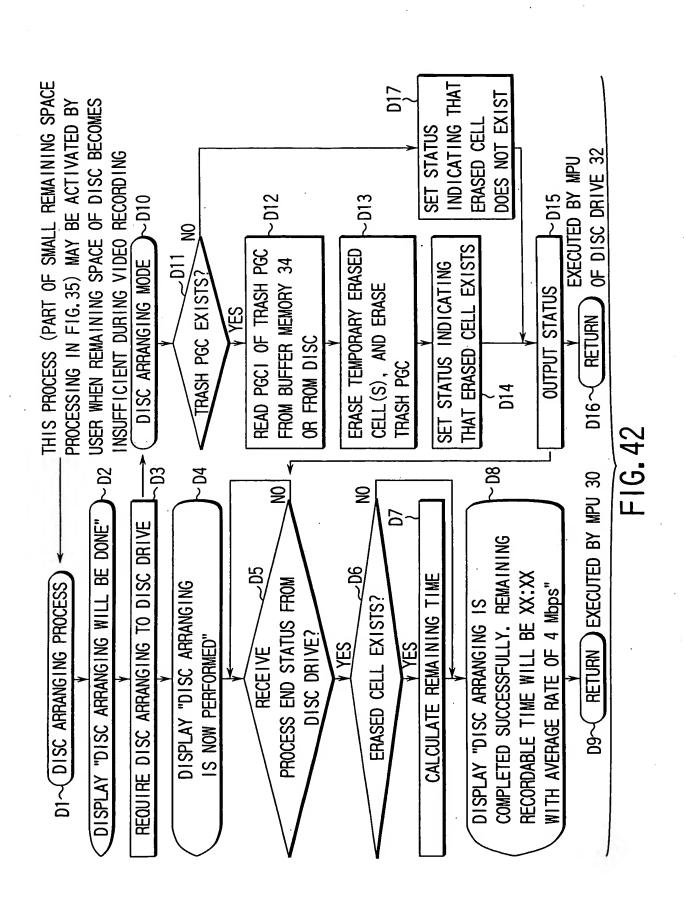


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OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 34 of 41



OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 35 of 41

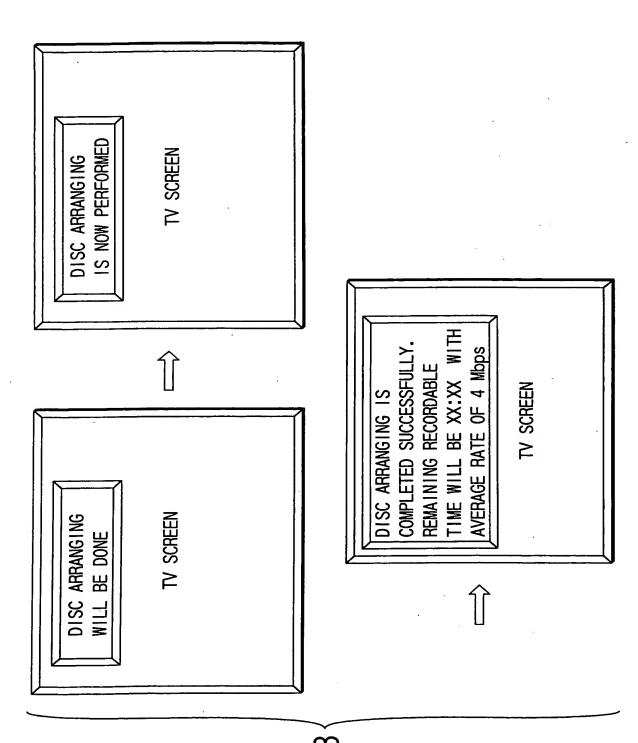
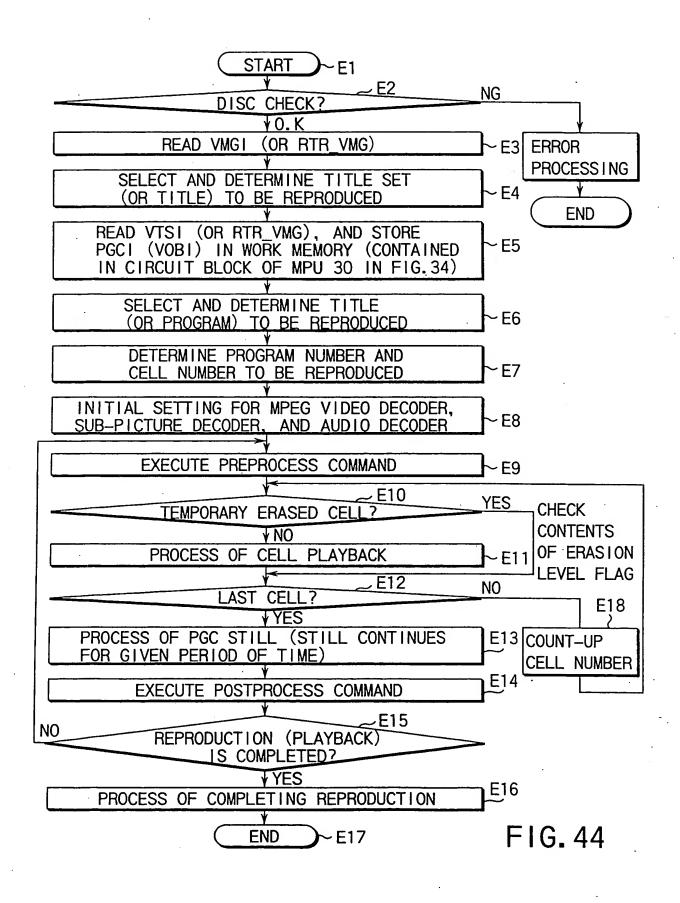
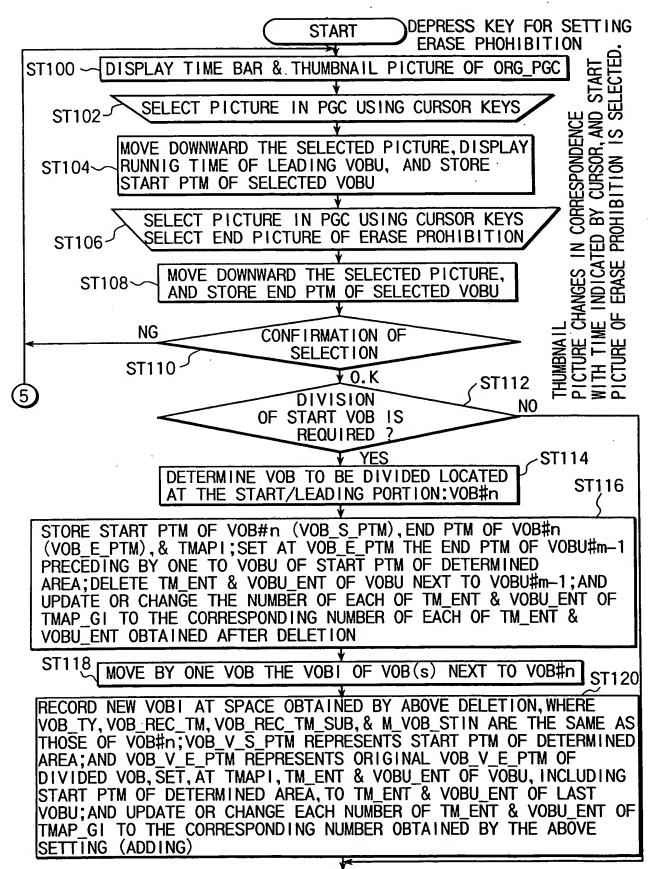


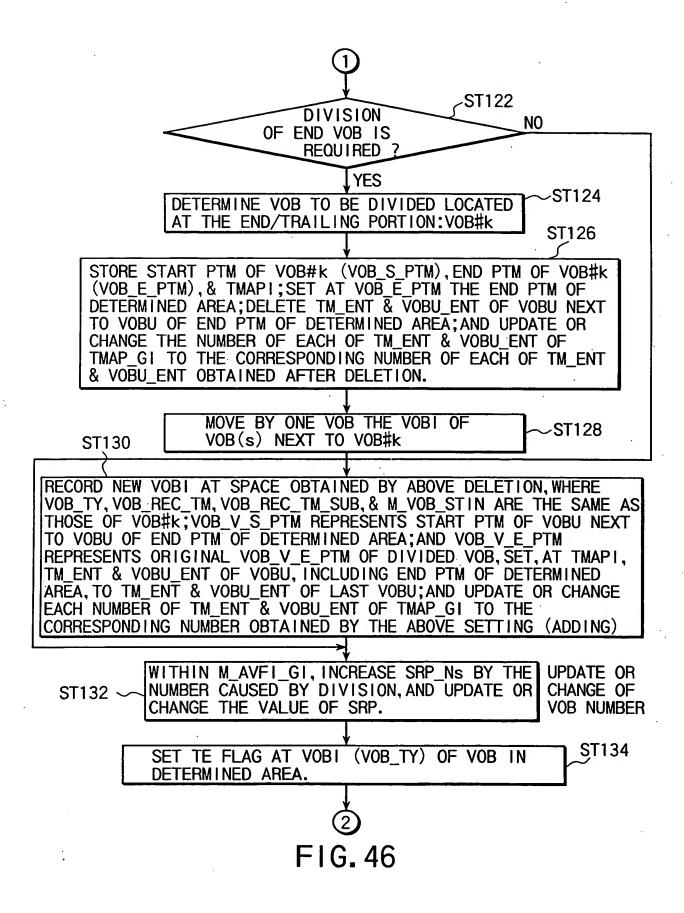
FIG. 43

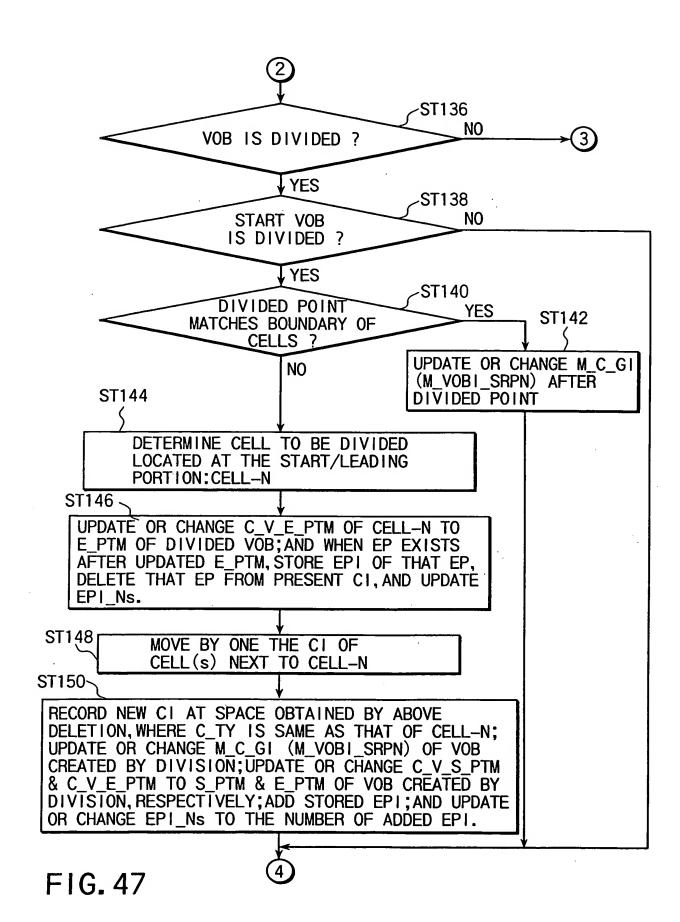


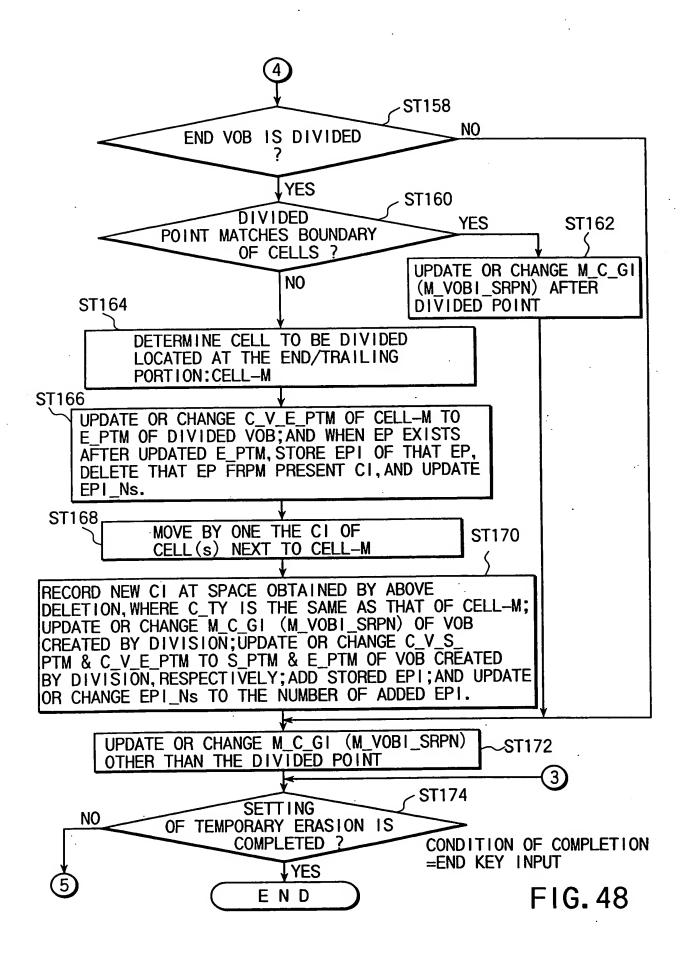


OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application









OBLON, SPIVAK ET AL.
Docket No. 249826US-2S DIV
Inventor: Shinichi KIKUCHI et al.
Appl. No. New Divisional Application
Page 41 of 41

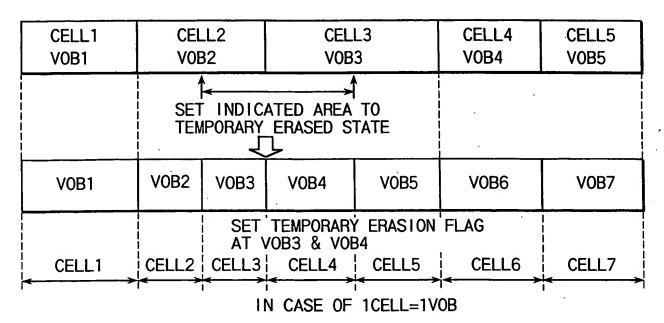


FIG. 49

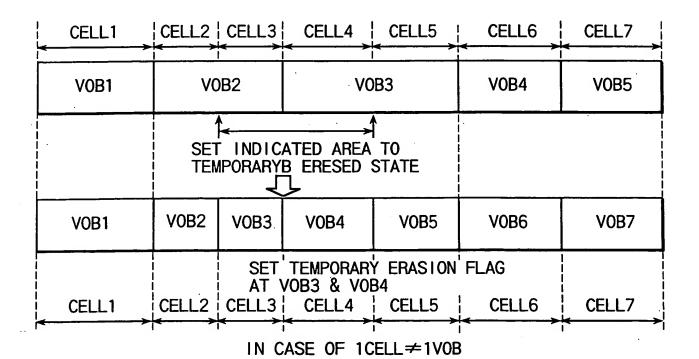


FIG. 50